

Residential Substreams

City-collected Single Family Substream

The project team hand sorted 181 samples from the city-collected single family substream. The composition data is the weighted average of 91 single family without green waste service samples and 90 single family with green waste service samples. The single family substreams and their associated tonnages are shown in Table 18. More detailed data for the city-collected single family substream is available beginning on page 123.

Table 18. Included Substreams and Tons, City-collected Single Family

Included Substreams	Tons
City Collected Single Family with Green Waste Service	107,310
City Collected Single Family w/o Green Waste Service	199,291
Total Disposal in Substream	306,601

Key Findings

As shown in **Figure 20**, approximately 81% of the city-collected single family substream is recoverable. Compostable/Potentially Compostable, shown in purple, makes up 53%. Approximately 15% is Recyclable (shown in blue), and 13% Potentially Recoverable, shown in green. The waste composition data by material class are presented in **Figure 21**. **Organics** (57%) and **Paper** (16%) are the two most prevalent material classes.

When comparing the waste composition data from single family accounts with and without green waste service the proportion of green waste is very similar for the two service types (see Figure 77). This suggests that the green waste service is underutilized by those with green waste service.

Figure 20. Composition by Recoverability Group, City-collected Single Family

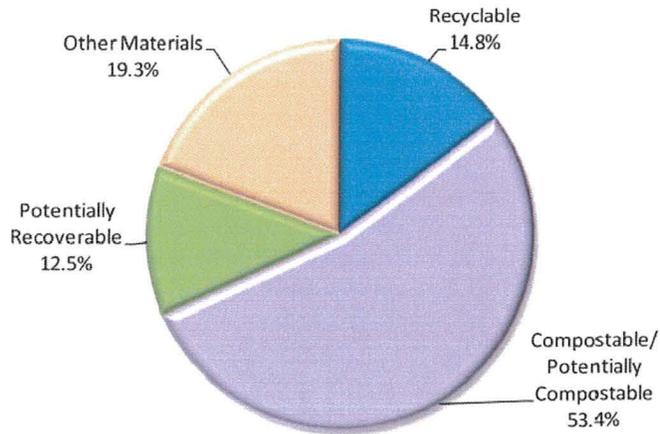
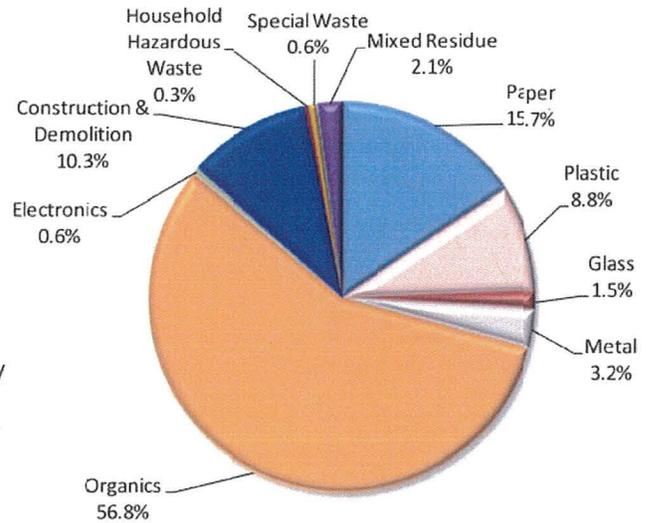


Figure 21. Composition by Material Class, City-collected Single Family



The ten most prevalent disposed materials in the substream are shown in Table 19. As shown, *food* (19%), *leaves and grass* (12%), and *palm, succulent, and coral tree* (8%) are the three most prevalent materials; together they represent approximately 39% of city-collected single family disposal.

Table 19. Ten Most Prevalent Disposed Material Types, City-collected Single Family, 2012

Material Type	Estimated Percent	Cumulative Percent	Estimated Tons
Food	18.5%	18.5%	56,744
Leaves and Grass	12.0%	30.5%	36,725
Palm, Succulent, Coral Tree	8.4%	38.9%	25,905
Prunings and Trimmings	6.7%	45.6%	20,439
Compostable/Soiled Paper	6.1%	51.7%	18,804
Textiles	4.2%	55.9%	12,923
Mixed Waste Paper	3.5%	59.4%	10,656
Diapers	3.3%	62.7%	10,149
Other Wood Waste	3.2%	65.9%	9,725
Dirty Film Plastic	2.7%	68.6%	8,267
All other material types	31.4%		96,264
Total	100.0%		306,601

The detailed composition of the city-collected single family substream is shown in Table 20.

Table 20. Detailed Waste Composition, City-collected Single Family, 2012

Material	Estimated Percent	+ / -	Estimated Tons	Material	Estimated Percent	+ / -	Estimated Tons
Paper	15.7%		48,045	Electronics	0.6%		1,837
Uncoated Corrugated Cardboard	2.1%	0.3%	6,363	Brown Goods	0.4%	0.2%	1,178
Waxed Corrugated Cardboard	0.0%	0.0%	26	CRT	0.0%	0.0%	0
Paper Bags	0.3%	0.0%	887	Computer-Related Electronics	0.0%	0.0%	113
Newspaper	1.3%	0.2%	3,846	Other Consumer Electronics	0.1%	0.0%	301
White Ledger Paper	0.6%	0.1%	1,838	Video Display Devices (non-CRT devices)	0.1%	0.1%	245
Mixed Waste Paper	3.5%	0.3%	10,656				
Magazines	1.0%	0.4%	2,946	Construction & Demolition	10.3%		31,678
Phone Books and Directories	0.0%	0.0%	96	Concrete	0.5%	0.4%	1,556
Compostable/Soiled Paper	6.1%	0.5%	18,804	Asphalt Paving	0.0%	0.0%	0
Aseptic/Milk Containers	0.1%	0.0%	437	Asphalt Composition Shingles	0.2%	0.2%	741
Remainder/Composite Paper	0.7%	0.2%	2,148	Roofing Tar Paper/Felt	0.0%	0.0%	135
				Roofing Mastic	0.0%	0.0%	0
Plastic	8.8%		26,945	Built-Up Roofing	0.0%	0.0%	0
CRV HDPE Containers	0.0%	0.0%	47	Other Asphalt Roofing Material	0.0%	0.1%	120
Non-CRV HDPE Containers	0.5%	0.1%	1,410	Clean Dimensional Lumber	0.3%	0.1%	1,012
CRV PETE Containers	0.2%	0.0%	749	Clean Engineered Wood	0.5%	0.3%	1,440
Non-CRV PETE Containers	0.4%	0.0%	1,104	Clean Pallets and Crates	0.1%	0.1%	246
Compostable Biodegradable Plastic Containers	0.0%	0.0%	19	Other Wood Waste	3.2%	0.7%	9,725
Miscellaneous Plastic Containers	0.7%	0.1%	2,218	Clean Gypsum Board	0.4%	0.4%	1,244
Plastic Grocery and Merchandise Bags	0.5%	0.0%	1,469	Painted/Demolition Gypsum Board	0.5%	0.4%	1,496
Clean Film Plastic	0.2%	0.0%	497	Carpet & Carpet Padding	1.6%	0.6%	4,842
Dirty Film Plastic	2.7%	0.2%	8,267	Rock, Soil and Fines	1.3%	0.8%	4,137
Durable Plastic Items	2.3%	0.5%	7,085	Contaminated Soil, Street Sweepings, Drain Cleaning	0.0%	0.1%	150
Expanded Polystyrene	0.5%	0.0%	1,569	Remainder/Composite C&D	1.6%	0.5%	4,835
Remainder/Composite Plastic	0.8%	0.1%	2,510				
				Household Hazardous Waste	0.3%		862
Glass	1.5%		4,524	Oil-Based Paint	0.1%	0.1%	185
CRV Clear Glass Bottles	0.2%	0.1%	544	Water-Based Paint	0.1%	0.1%	223
Non-CRV Clear Glass Bottles and Containers	0.4%	0.1%	1,214	Vehicle and Equipment Fluids	0.0%	0.0%	0
CRV Brown Glass Bottles	0.2%	0.1%	670	Used Oil	0.0%	0.0%	0
Non-CRV Brown Glass Bottles and Containers	0.1%	0.0%	155	Lead-Acid Batteries	0.1%	0.1%	270
CRV Other Colored Glass Bottles	0.1%	0.0%	214	Household Batteries	0.0%	0.0%	74
Non-CRV other Colored Glass Bottles and Containers	0.2%	0.1%	734	Sharps	0.0%	0.0%	9
Flat Glass	0.0%	0.0%	33	Pharmaceuticals	0.0%	0.0%	57
Remainder/Composite Glass	0.3%	0.1%	960	CFL, Fluorescent Tube and Other Mercury-Containing	0.0%	0.0%	6
				Remainder/Composite Household Hazardous	0.0%	0.0%	39
Metal	3.2%		9,903				
Tin/Steel Cans	0.7%	0.1%	2,081	Special Waste	0.6%		1,982
Major Appliances	0.0%	0.0%	0	Ash	0.0%	0.0%	33
Other Ferrous Metal	1.1%	0.4%	3,523	Sewage Solids	0.0%	0.0%	0
CRV Aluminum & Tin Cans	0.2%	0.1%	652	Industrial Sludge	0.0%	0.0%	0
Non-CRV Aluminum Cans	0.0%	0.0%	87	Treated Medical Waste	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	Bulky Items	0.5%	0.4%	1,609
Other Non-Ferrous Metal	0.3%	0.1%	989	Tire	0.0%	0.0%	54
Remainder/Composite Metal	0.8%	0.2%	2,569	Remainder/Composite Special Waste	0.1%	0.1%	286
Organics	56.8%		174,256	Mixed Residue	2.1%		6,569
Food	18.5%	1.2%	56,744	Mixed Residue	2.1%	0.5%	6,569
Palm, Succulent, Coral Tree Leaves and Grass	12.0%	1.5%	36,725	Total	100.0%		306,601
Prunings and Trimmings	6.7%	1.2%	20,439	Curbside Residential Recycling Processing Residuals			0
Branches and Stumps	1.0%	0.5%	3,214	C&D Processing Residuals			0
Agricultural Crop Residues	0.0%	0.0%	0				
Grass Sod	0.1%	0.1%	452	Total Including Residuals			306,601
Manures	0.0%	0.0%	133				
Diapers	3.3%	0.4%	10,149	Sample Count			181
Textiles	4.2%	0.6%	12,923				
Remainder/Composite Organics	2.5%	0.4%	7,572				

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.